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## RAW SEQUENCE LISTING

DATE: 07/24/2001

PATENT APPLICATION: US/08/833,838B

TIME: 10:25:58

Input Set : A:\96700-451.ST25.txt

Output Set: N:\CRF3\07242001\H833838B.raw

ENTERED

3 <110> APPLICANT: Gaynor, Bruce  
 4 Diamond, Betty  
 5 Scharff, Matthew  
 6 Valadon, Philippe  
 8 <120> TITLE OF INVENTION: PEPTIDES FOR THE TREATMENT AND DIAGNOSIS  
 9 OF SYSTEMIC LUPUS ERYTHEMATOSUS  
 11 <130> FILE REFERENCE: 96700/451  
 13 <140> CURRENT APPLICATION NUMBER: US 08/833,838B  
 15 <141> CURRENT FILING DATE: 1997-04-10  
 17 <150> PRIOR APPLICATION NUMBER: US 08/531,832  
 19 <151> PRIOR FILING DATE: 1995-09-20  
 21 <160> NUMBER OF SEQ ID NOS: 24  
 23 <170> SOFTWARE: PatentIn version 3.0  
 26 <210> SEQ ID NO: 1  
 28 <211> LENGTH: 10  
 30 <212> TYPE: PRT  
 32 <213> ORGANISM: artificial sequence  
 34 <220> FEATURE:  
 36 <221> NAME/KEY: peptide  
 38 <222> LOCATION: (1)..(10)  
 40 <223> OTHER INFORMATION: synthetic peptide that binds R4A  
 42 <400> SEQUENCE: 1  
 44 Asp Trp Glu Tyr Ser Val Trp Leu Ser Asn  
 45 1 5 10  
 48 <210> SEQ ID NO: 2  
 50 <211> LENGTH: 5  
 52 <212> TYPE: PRT  
 54 <213> ORGANISM: artificial sequence  
 56 <220> FEATURE:  
 58 <221> NAME/KEY: peptide  
 60 <222> LOCATION: (1)..(5)  
 62 <223> OTHER INFORMATION: peptide that inhibits binding of R4A to calf thymus dsDNA;  
 63 X at positions 1 and 3 may be Asp or Glu;  
 64 X at position 5 may be Gly or Ser  
 66 <400> SEQUENCE: 2  
 68 Xaa Trp Xaa Tyr Xaa  
 69 1 5  
 72 <210> SEQ ID NO: 3  
 74 <211> LENGTH: 6  
 76 <212> TYPE: PRT  
 78 <213> ORGANISM: artificial sequence  
 80 <220> FEATURE:  
 82 <221> NAME/KEY: peptide  
 84 <222> LOCATION: (1)..(6)  
 86 <223> OTHER INFORMATION: peptide that binds human anti-dsDNA monoclonal antibodies;  
 87 X at positions 1 and 4 may be any amino acid  
 89 <400> SEQUENCE: 3

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91 Xaa Gly Trp Xaa Arg Val  
 92 1 5  
 95 <210> SEQ ID NO: 4  
 97 <211> LENGTH: 6  
 99 <212> TYPE: PRT  
 101 <213> ORGANISM: artificial sequence  
 103 <220> FEATURE:  
 105 <221> NAME/KEY: peptide  
 107 <222> LOCATION: (1)..(6)  
 109 <223> OTHER INFORMATION: peptide that binds human anti-dsDNA monoclonal antibodies;  
 110 X at positions 1, 3, and 6 may be any amino acid  
 112 <400> SEQUENCE: 4  
 114 Xaa Trp Xaa Tyr His Xaa  
 115 1 5  
 118 <210> SEQ ID NO: 5  
 120 <211> LENGTH: 6  
 122 <212> TYPE: PRT  
 124 <213> ORGANISM: artificial sequence  
 126 <220> FEATURE:  
 128 <221> NAME/KEY: peptide  
 130 <222> LOCATION: (1)..(6)  
 132 <223> OTHER INFORMATION: peptide that binds human anti-dsDNA monoclonal antibodies;  
 133 X at positions 1 and 3 may be Asp or Glu  
 135 <400> SEQUENCE: 5  
 137 Xaa Gly Xaa Trp Pro Arg  
 138 1 5  
 141 <210> SEQ ID NO: 6  
 143 <211> LENGTH: 25  
 145 <212> TYPE: PRT  
 147 <213> ORGANISM: artificial sequence  
 149 <220> FEATURE:  
 151 <221> NAME/KEY: peptide  
 153 <222> LOCATION: (1)..(25)  
 155 <223> OTHER INFORMATION: amino terminus used to construct decapeptide library;  
 156 X at positions 7-16 may be any amino acid  
 158 <400> SEQUENCE: 6  
 160 Ala Asp Gly Ser Gly Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 161 1 5 10 15  
 163 Gly Ala Pro Ser Gly Ala Glu Thr Val  
 164 20 25  
 167 <210> SEQ ID NO: 7  
 169 <211> LENGTH: 10  
 171 <212> TYPE: PRT  
 173 <213> ORGANISM: artificial sequence  
 175 <220> FEATURE:  
 177 <221> NAME/KEY: peptide  
 179 <222> LOCATION: (1)..(10)  
 181 <223> OTHER INFORMATION: peptide synthesized in the Macromolecular Analysis Facility  
 at  
 182 Albert Einstein College of Medicine

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184 <400> SEQUENCE: 7  
186 Arg His Glu Asp Gly Asp Trp Pro Arg Val  
187 1 5 10  
190 <210> SEQ ID NO: 8  
192 <211> LENGTH: 10  
194 <212> TYPE: PRT  
196 <213> ORGANISM: artificial sequence  
198 <220> FEATURE:  
200 <221> NAME/KEY: peptide  
202 <222> LOCATION: (1)..(10)  
204 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning  
205 a decapeptide library with R4A  
207 <400> SEQUENCE: 8  
209 Trp Cys Glu Ala Asp Tyr Gly Arg Cys Pro  
210 1 5 10  
213 <210> SEQ ID NO: 9  
215 <211> LENGTH: 10  
217 <212> TYPE: PRT  
219 <213> ORGANISM: artificial sequence  
221 <220> FEATURE:  
223 <221> NAME/KEY: peptide  
225 <222> LOCATION: (1)..(10)  
227 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning  
228 a decapeptide library with R4A  
230 <400> SEQUENCE: 9  
232 Leu Tyr Phe Glu Asp Tyr Arg Cys Glu Leu  
233 1 5 10  
236 <210> SEQ ID NO: 10  
238 <211> LENGTH: 10  
240 <212> TYPE: PRT  
242 <213> ORGANISM: artificial sequence  
244 <220> FEATURE:  
246 <221> NAME/KEY: peptide  
248 <222> LOCATION: (1)..(10)  
250 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning  
251 a decapeptide library with R4A  
253 <400> SEQUENCE: 10  
255 Asp Trp Asp Tyr Gly Ala Leu Met Trp Ala  
256 1 5 10  
259 <210> SEQ ID NO: 11  
261 <211> LENGTH: 10  
263 <212> TYPE: PRT  
265 <213> ORGANISM: artificial sequence  
267 <220> FEATURE:  
269 <221> NAME/KEY: peptide  
271 <222> LOCATION: (1)..(10)  
273 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning  
274 a decapeptide library with R4A  
276 <400> SEQUENCE: 11

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Input Set : A:\96700-451.ST25.txt

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278 Tyr Ser Asp Trp Asp Tyr Ser Glu Gly Leu  
279 1 5 10  
282 <210> SEQ ID NO: 12  
284 <211> LENGTH: 10  
286 <212> TYPE: PRT  
288 <213> ORGANISM: artificial sequence  
290 <220> FEATURE:  
292 <221> NAME/KEY: peptide  
294 <222> LOCATION: (1)..(10)  
296 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning  
297 a decapeptide library with R4A  
299 <400> SEQUENCE: 12  
301 Ser Thr Glu His Ser Glu Ala Asp Leu Trp  
302 1 5 10  
305 <210> SEQ ID NO: 13  
307 <211> LENGTH: 10  
309 <212> TYPE: PRT  
311 <213> ORGANISM: artificial sequence  
313 <220> FEATURE:  
315 <221> NAME/KEY: peptide  
317 <222> LOCATION: (1)..(10)  
319 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning  
320 a decapeptide library with R4A  
322 <400> SEQUENCE: 13  
324 Val Pro Val Cys Asp Trp Glu Leu Asn Cys  
325 1 5 10  
328 <210> SEQ ID NO: 14  
330 <211> LENGTH: 10  
332 <212> TYPE: PRT  
334 <213> ORGANISM: artificial sequence  
336 <220> FEATURE:  
338 <221> NAME/KEY: peptide  
340 <222> LOCATION: (1)..(10)  
342 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning  
343 a decapeptide library with R4A  
345 <400> SEQUENCE: 14  
347 Phe Ser Asp Cys Tyr His Ser Gly Cys Pro  
348 1 5 10  
351 <210> SEQ ID NO: 15  
353 <211> LENGTH: 10  
355 <212> TYPE: PRT  
357 <213> ORGANISM: artificial sequence  
359 <220> FEATURE:  
361 <221> NAME/KEY: peptide  
363 <222> LOCATION: (1)..(10)  
365 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning  
366 a decapeptide library with 52b3  
368 <400> SEQUENCE: 15  
370 Leu Leu Asp Asp Gly Phe Trp Pro Arg Val

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Input Set : A:\96700-451.ST25.txt

Output Set: N:\CRF3\07242001\H833838B.raw

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371 1          5          10
374 <210> SEQ ID NO: 16
376 <211> LENGTH: 10
378 <212> TYPE: PRT
380 <213> ORGANISM: artificial sequence
382 <220> FEATURE:
384 <221> NAME/KEY: peptide
386 <222> LOCATION: (1)..(10)
388 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning
389     a decapeptide library with 52b3
391 <400> SEQUENCE: 16
393 Cys Gly Val Asp Gly Arg Trp Pro Arg Trp
394 1          5          10
397 <210> SEQ ID NO: 17
399 <211> LENGTH: 10
401 <212> TYPE: PRT
403 <213> ORGANISM: artificial sequence
405 <220> FEATURE:
407 <221> NAME/KEY: peptide
409 <222> LOCATION: (1)..(10)
411 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning
412     a decapeptide library with 52b3
414 <400> SEQUENCE: 17
416 Ser Leu Ile Ser Asp Glu Trp Pro Arg Trp
417 1          5          10
420 <210> SEQ ID NO: 18
422 <211> LENGTH: 10
424 <212> TYPE: PRT
426 <213> ORGANISM: artificial sequence
428 <220> FEATURE:
430 <221> NAME/KEY: peptide
432 <222> LOCATION: (1)..(10)
434 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning
435     a decapeptide library with 52b3
437 <400> SEQUENCE: 18
439 Asp Gly Glu Trp Pro Arg Glu Gly Trp Ser
440 1          5          10
443 <210> SEQ ID NO: 19
445 <211> LENGTH: 10
447 <212> TYPE: PRT
449 <213> ORGANISM: artificial sequence
451 <220> FEATURE:
453 <221> NAME/KEY: peptide
455 <222> LOCATION: (1)..(10)
457 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning
458     a decapeptide library with 52b3
460 <400> SEQUENCE: 19
462 Glu Asp Leu Glu Gly Glu Trp Pro Met Arg
463 1          5          10

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## VERIFICATION SUMMARY

DATE: 07/24/2001

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Input Set : A:\96700-451.ST25.txt

Output Set: N:\CRF3\07242001\H833838B.raw

L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6